

Powder gun for fire extinguisher - has central purge gas supply to prevent powder deposits

Patent Assignee: ESB ELEKTROSTAT SPRITZ

Inventors: VOEHRINGER G F

Patent Family

Patent Number	Kind	Date	Application Number	Kind	Date	Week	Type
DE 3003684	A	19810806				198133	B
WO 8102116	A	19810806				198134	
EP 44842	A	19820203	EP 81900271	A	19810000	198206	
EP 44842	B	19850417				198516	
DE 3169931	G	19850523				198522	

Priority Applications (Number Kind Date): DE 3003684 A (19800201)

Cited Patents: CH 609585; DE 2509851; DE 2541927; DE 2819666; DE 2852038; FR 2330461; FR 2410514; FR 2435152; GB 1518547; GB 2029271; JP 51045143; JP 54077650; JP 54140842; JP 55034159; NL 7113656; US 4221339 ; US 4228961 ; JP 54148042

Patent Details

Patent	Kind	Language	Page	Main IPC	Filing Notes
DE 3003684	A		14		
WO 8102116	A	G			
Designated States (National): DK JP					
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EP 44842	A	G			
Designated States (Regional): AT CH DE FR GB LI LU NL SE					
EP 44842	B	G			
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Abstract:

DE 3003684 A

The powder gun for a fire extinguisher supplies a mixture of powder and gas from nozzle which is distributed by impacting on cone. The cone is supported on a hollow rod through which purging gas can be supplied.

The purging gas is directed by a mushroom head to flow in a radial direction, thus preventing build up of powder deposits on the edge which otherwise takes place. The purge gas normally comes from compressed air supply. A smoke detector operates a valve to change the supply to a Halon ie.

fluorocarbon gas source when required.

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High-tension supply for electrostatic spray paint gun - uses axial paint delivery conduit to carry high tension supply to contact button at centre of rotating spray head

Patent Assignee: SAMES SA

Inventors: DI GIOIA M; PHAM V T; PHAM V

Patent Family

Patent Number	Kind	Date	Application Number	Kind	Date	Week	Type
FR 2706328	A1	19941223	FR 937296	A	19930617	199506	B
WO 9500250	A1	19950105	WO 94FR638	A	19940601	199507	
EP 707521	A1	19960424	EP 94917699	A	19940601	199621	
			WO 94FR638	A	19940601		
EP 707521	B1	19970219	EP 94917699	A	19940601	199713	
			WO 94FR638	A	19940601		
DE 69401777	E	19970327	DE 601777	A	19940601	199718	
			EP 94917699	A	19940601		
			WO 94FR638	A	19940601		
JP 9502123	W	19970304	WO 94FR638	A	19940601	199719	
			JP 95502492	A	19940601		
ES 2098150	T3	19970416	EP 94917699	A	19940601	199722	

Priority Applications (Number Kind Date): FR 937296 A (19930617)

Cited Patents: DE 1802693; EP 59283 ; GB 2142844; US 3572589

Patent Details

Patent	Kind	Language	Page	Main IPC	Filing Notes
FR 2706328	A1		12	B05B-005/04	
WO 9500250	A1				
Designated States (National): BR CA CN JP KR RU US					
Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE					
EP 707521	A1	F	12	B05B-005/04	Based on patent WO 9500250
Designated States (Regional): BE CH DE ES FR GB IT LI NL PT SE					
EP 707521	B1	F	6	B05B-005/04	Based on patent WO 9500250
Designated States (Regional): BE CH DE ES FR GB IT LI NL PT SE					
DE 69401777	E			B05B-005/04	Based on patent EP 707521
					Based on patent WO 9500250

JP 9502123	W		11	B05B-005/04	Based on patent WO 9500250
ES 2098150	T3			B05B-005/04	Based on patent EP 707521

Abstract:

FR 2706328 A

The spray gun has a conduit (2) to supply a coating material, for example a thermo-fusible paint. The conduit opens axially at the base of a spray head (3) rotating at round 60,000 rpm. The spray head has a deflector (5) with its edge forming a charged electrode (32).

The high tension supply (22-26,30-32) passes along the conductive conduit to an axial contact formed between the spray head and a fixed projection (26) at the end of the conduit. The axial contact is formed by a spring-loaded (31) button (30) mounted axially in the rotating head and pressed against the fixed part (26) carried by the conduit.

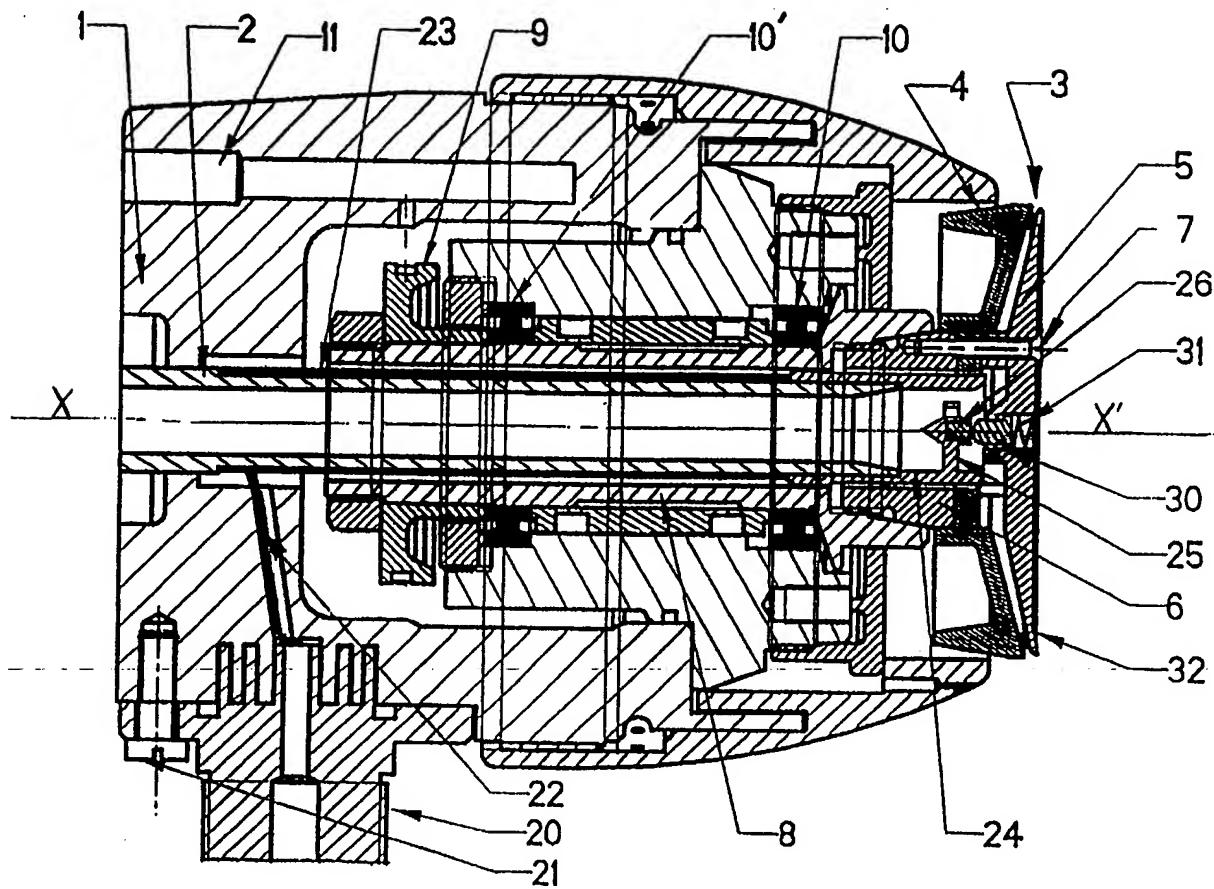
ADVANTAGE - Permanent electrical contact giving even distribution of charged spray to produce even coating, with sliding contact positioned at point of lowest sliding velocity to minimise wear.

Dwg.1/1

EP 707521 B

Electrostatic spraying device for powder coating product comprising a supply conduit (2) for the coating product discharging axially at the rear of a rotary spray-head, characterised in that said circuit (22, 23, 24, 25, 26, 30, 31, 32) comprises an axial contact between said spray-head and a fixed part (26) carried by said conduit.

Dwg.1/1



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